



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 6, 2026 – 08:52 AM UTC

PDB ID : 2RHK / pdb_00002rhk
Title : Crystal structure of influenza A NS1A protein in complex with F2F3 fragment of human cellular factor CPSF30, Northeast Structural Genomics Targets OR8C and HR6309A
Authors : Das, K.; Ma, L.-C.; Xiao, R.; Radvansky, B.; Aramini, J.; Zhao, L.; Arnold, E.; Krug, R.M.; Montelione, G.T.; Northeast Structural Genomics Consortium (NESG)
Deposited on : 2007-10-09
Resolution : 1.95 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

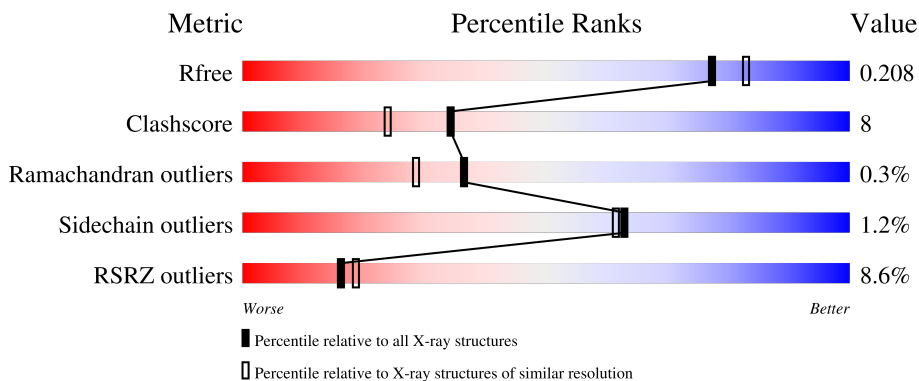
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.95 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	3494 (1.96-1.96)
Clashscore	190562	3612 (1.96-1.96)
Ramachandran outliers	187476	3587 (1.96-1.96)
Sidechain outliers	187428	3587 (1.96-1.96)
RSRZ outliers	180081	3495 (1.96-1.96)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	140	<div style="display: flex; align-items: center;"> <div style="width: 5%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 66%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 12%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 15%; height: 10px; background-color: grey; margin-right: 5px;"></div> </div> <p style="margin-left: 5px;">5% 71% 12% • 15%</p>
1	B	140	<div style="display: flex; align-items: center;"> <div style="width: 7%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 64%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 14%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 15%; height: 10px; background-color: grey; margin-right: 5px;"></div> </div> <p style="margin-left: 5px;">7% 71% 14% 15%</p>
2	C	72	<div style="display: flex; align-items: center;"> <div style="width: 11%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 61%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 15%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 12%; height: 10px; background-color: grey; margin-right: 5px;"></div> </div> <p style="margin-left: 5px;">11% 72% 15% 12%</p>
2	D	72	<div style="display: flex; align-items: center;"> <div style="width: 8%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 56%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 18%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 17%; height: 10px; background-color: grey; margin-right: 5px;"></div> </div> <p style="margin-left: 5px;">8% 64% 18% • 17%</p>

Validation Pipeline (wwPDB-VP) : 2.49

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	NO3	A	4	-	-	X	-
5	TRS	D	11	-	X	-	-

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 3128 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Non-structural protein 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	119	950	612	159	173	6	0	0	0
1	B	119	950	612	159	173	6	0	0	0

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	84	MET	-	initiating methionine	UNP P03495
A	216	LEU	-	expression tag	UNP P03495
A	217	GLU	-	expression tag	UNP P03495
A	218	HIS	-	expression tag	UNP P03495
A	219	HIS	-	expression tag	UNP P03495
A	220	HIS	-	expression tag	UNP P03495
A	221	HIS	-	expression tag	UNP P03495
A	222	HIS	-	expression tag	UNP P03495
A	223	HIS	-	expression tag	UNP P03495
B	84	MET	-	initiating methionine	UNP P03495
B	216	LEU	-	expression tag	UNP P03495
B	217	GLU	-	expression tag	UNP P03495
B	218	HIS	-	expression tag	UNP P03495
B	219	HIS	-	expression tag	UNP P03495
B	220	HIS	-	expression tag	UNP P03495
B	221	HIS	-	expression tag	UNP P03495
B	222	HIS	-	expression tag	UNP P03495
B	223	HIS	-	expression tag	UNP P03495

- Molecule 2 is a protein called Cleavage and polyadenylation specificity factor subunit 4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	C	63	520	328	88	95	9	0	0	0

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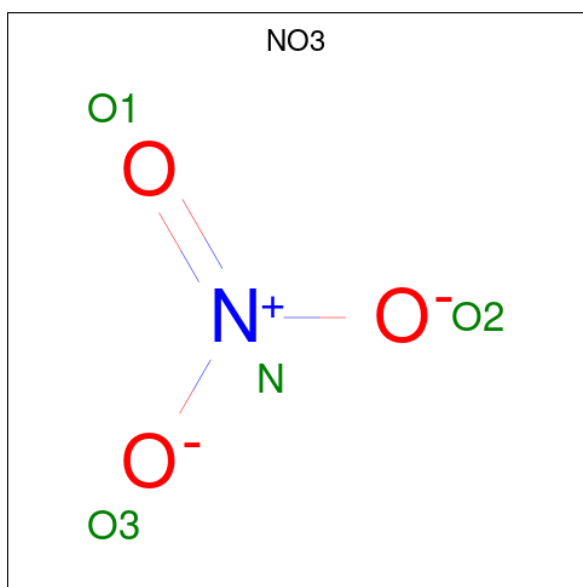
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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	D	60	491	311	81	90	9	0	0	0

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	50	MET	-	expression tag	UNP O95639
C	51	GLY	-	expression tag	UNP O95639
C	52	HIS	-	expression tag	UNP O95639
C	53	HIS	-	expression tag	UNP O95639
C	54	HIS	-	expression tag	UNP O95639
C	55	HIS	-	expression tag	UNP O95639
C	56	HIS	-	expression tag	UNP O95639
C	57	HIS	-	expression tag	UNP O95639
C	58	SER	-	expression tag	UNP O95639
C	59	HIS	-	expression tag	UNP O95639
C	60	MET	-	expression tag	UNP O95639
C	94	SER	PRO	engineered mutation	UNP O95639
D	50	MET	-	expression tag	UNP O95639
D	51	GLY	-	expression tag	UNP O95639
D	52	HIS	-	expression tag	UNP O95639
D	53	HIS	-	expression tag	UNP O95639
D	54	HIS	-	expression tag	UNP O95639
D	55	HIS	-	expression tag	UNP O95639
D	56	HIS	-	expression tag	UNP O95639
D	57	HIS	-	expression tag	UNP O95639
D	58	SER	-	expression tag	UNP O95639
D	59	HIS	-	expression tag	UNP O95639
D	60	MET	-	expression tag	UNP O95639
D	94	SER	PRO	engineered mutation	UNP O95639

- Molecule 3 is NITRATE ION (CCD ID: NO3) (formula: NO₃).

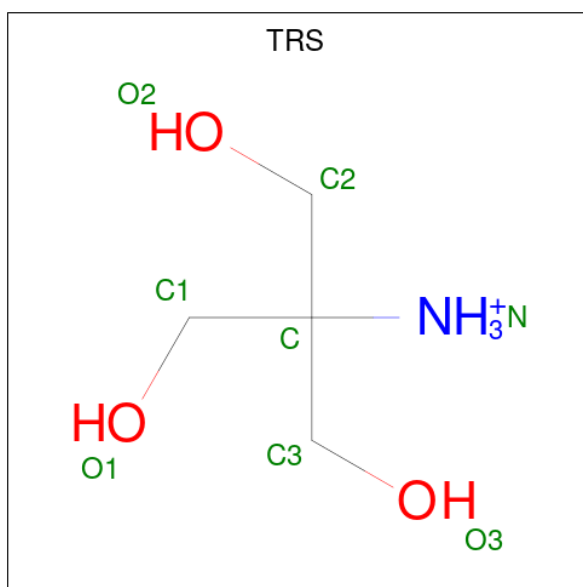


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	N	O	0	0
			4	1	3		
3	A	1	Total	N	O	0	0
			4	1	3		
3	A	1	Total	N	O	0	0
			4	1	3		
3	A	1	Total	N	O	0	0
			4	1	3		
3	C	1	Total	N	O	0	0
			4	1	3		

- Molecule 4 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	C	2	Total	Zn	0	0
			2	2		
4	D	2	Total	Zn	0	0
			2	2		

- Molecule 5 is 2-AMINO-2-HYDROXYMETHYL-PROPANE-1,3-DIOL (CCD ID: TRS) (formula: C₄H₁₂NO₃).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
5	D	1	8	4	1	3	0	0

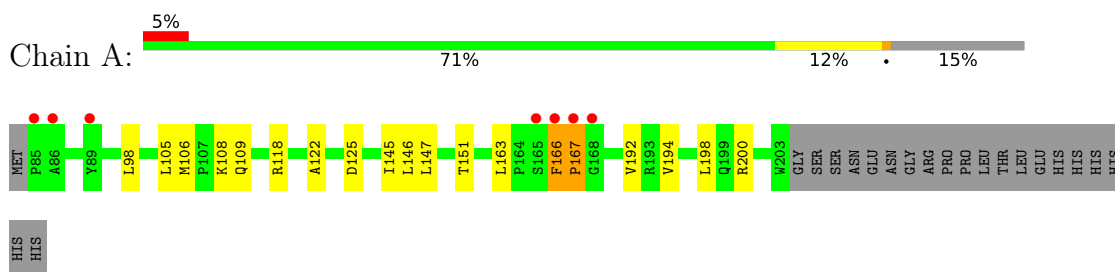
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	67	Total	O	0	0
			67	67		
6	B	53	Total	O	0	0
			53	53		
6	C	34	Total	O	0	0
			34	34		
6	D	31	Total	O	0	0
			31	31		

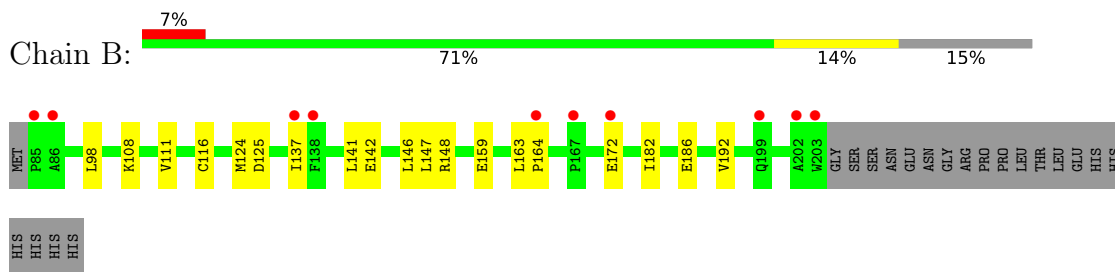
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

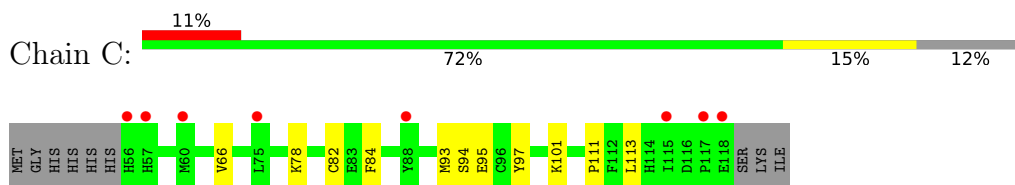
- Molecule 1: Non-structural protein 1



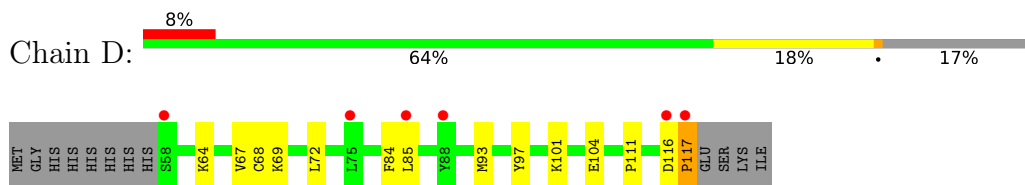
- Molecule 1: Non-structural protein 1



- Molecule 2: Cleavage and polyadenylation specificity factor subunit 4



- Molecule 2: Cleavage and polyadenylation specificity factor subunit 4



4 Data and refinement statistics i

Property	Value	Source
Space group	P 41	Depositor
Cell constants a, b, c, α , β , γ	50.96Å 50.96Å 205.39Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 1.95 50.00 – 1.95	Depositor EDS
% Data completeness (in resolution range)	97.8 (50.00-1.95) 97.8 (50.00-1.95)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.07 (at 1.89Å)	Xtrriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.210 , 0.234 0.207 , 0.208	Depositor DCC
R_{free} test set	1145 reflections (2.92%)	wwPDB-VP
Wilson B-factor (Å ²)	28.9	Xtrriage
Anisotropy	0.551	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 44.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.065 for h,-k,-l	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3128	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.94% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: NO3, TRS, ZN

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.43	0/969	1.03	7/1311 (0.5%)
1	B	0.42	0/969	0.97	2/1311 (0.2%)
2	C	0.35	0/536	0.82	0/716
2	D	0.41	0/505	0.87	2/674 (0.3%)
All	All	0.41	0/2979	0.95	11/4012 (0.3%)

There are no bond length outliers.

The worst 5 of 11 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	145	ILE	N-CA-C	-6.92	105.02	111.45
1	B	192	VAL	N-CA-C	6.79	117.65	107.80
2	D	117	PRO	N-CA-C	-6.56	95.71	112.10
1	A	192	VAL	N-CA-C	5.99	116.56	108.17
1	A	125	ASP	N-CA-C	5.84	119.61	111.90

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	950	0	970	14	0
1	B	950	0	970	14	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	C	520	0	475	8	0
2	D	491	0	455	10	0
3	A	16	0	0	2	0
3	C	4	0	0	0	0
4	C	2	0	0	0	0
4	D	2	0	0	0	0
5	D	8	0	11	1	0
6	A	67	0	0	0	0
6	B	53	0	0	1	0
6	C	34	0	0	0	0
6	D	31	0	0	2	0
All	All	3128	0	2881	44	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 8.

The worst 5 of 44 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:98:LEU:HD12	1:B:146:LEU:HD23	1.63	0.81
1:B:111:VAL:HG13	1:B:163:LEU:HD11	1.63	0.79
2:C:66:VAL:HG13	2:C:84:PHE:HD2	1.53	0.72
2:C:66:VAL:HG13	2:C:84:PHE:CD2	2.26	0.71
1:A:98:LEU:HD12	1:A:146:LEU:HD23	1.76	0.68

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	117/140 (84%)	111 (95%)	5 (4%)	1 (1%)	14 6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	117/140 (84%)	115 (98%)	2 (2%)	0	100	100
2	C	61/72 (85%)	58 (95%)	3 (5%)	0	100	100
2	D	58/72 (81%)	57 (98%)	1 (2%)	0	100	100
All	All	353/424 (83%)	341 (97%)	11 (3%)	1 (0%)	36	28

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	167	PRO

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	105/124 (85%)	103 (98%)	2 (2%)	50	45
1	B	105/124 (85%)	104 (99%)	1 (1%)	68	67
2	C	59/67 (88%)	59 (100%)	0	100	100
2	D	56/67 (84%)	55 (98%)	1 (2%)	51	47
All	All	325/382 (85%)	321 (99%)	4 (1%)	63	61

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	108	LYS
1	A	167	PRO
1	B	172	GLU
2	D	117	PRO

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	109	GLN

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Mol	Chain	Res	Type
1	A	176	ASN
2	D	81	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 10 ligands modelled in this entry, 4 are monoatomic - leaving 6 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	NO3	C	1	-	1,3,3	0.42	0	0,3,3	-	-
3	NO3	A	5	-	1,3,3	0.26	0	0,3,3	-	-
3	NO3	A	2	-	1,3,3	0.42	0	0,3,3	-	-
3	NO3	A	4	-	1,3,3	0.54	0	0,3,3	-	-
3	NO3	A	3	-	1,3,3	0.26	0	0,3,3	-	-
5	TRS	D	11	-	7,7,7	1.97	4 (57%)	9,9,9	4.18	5 (55%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	TRS	D	11	-	-	4/9/9/9	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	11	TRS	O2-C2	-2.78	1.33	1.42
5	D	11	TRS	C-N	2.50	1.57	1.49
5	D	11	TRS	C1-C	2.04	1.58	1.53
5	D	11	TRS	C3-C	2.00	1.58	1.53

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	D	11	TRS	C2-C-N	7.47	127.22	108.17
5	D	11	TRS	C3-C-C2	-6.37	93.69	110.66
5	D	11	TRS	C3-C-N	-5.18	94.95	108.17
5	D	11	TRS	C3-C-C1	4.91	123.75	110.66
5	D	11	TRS	O2-C2-C	2.72	118.45	110.88

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	D	11	TRS	C2-C-C1-O1
5	D	11	TRS	N-C-C2-O2
5	D	11	TRS	N-C-C1-O1
5	D	11	TRS	C3-C-C1-O1

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	4	NO3	2	0
5	D	11	TRS	1	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	119/140 (85%)	0.25	7 (5%) 28 32	24, 32, 57, 74	0
1	B	119/140 (85%)	0.45	10 (8%) 17 19	25, 36, 57, 66	0
2	C	63/72 (87%)	0.82	8 (12%) 8 9	27, 39, 60, 77	0
2	D	60/72 (83%)	0.85	6 (10%) 12 14	26, 40, 60, 68	0
All	All	361/424 (85%)	0.51	31 (8%) 16 19	24, 36, 60, 77	0

The worst 5 of 31 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	166	PHE	7.3
1	A	167	PRO	5.8
2	C	57	HIS	5.6
2	D	117	PRO	4.6
1	B	203	TRP	4.5

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q < 0.9’ lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
5	TRS	D	11	8/8	0.52	0.20	44,46,51,54	0
3	NO3	A	2	4/4	0.63	0.24	52,58,59,62	0
3	NO3	C	1	4/4	0.73	0.33	54,59,60,60	0
3	NO3	A	3	4/4	0.83	0.24	48,48,48,52	0
3	NO3	A	5	4/4	0.83	0.22	39,46,47,49	0
3	NO3	A	4	4/4	0.86	0.15	40,46,47,48	0
4	ZN	C	501	1/1	0.99	0.04	42,42,42,42	0
4	ZN	D	501	1/1	0.99	0.04	44,44,44,44	0
4	ZN	C	502	1/1	0.99	0.04	30,30,30,30	0
4	ZN	D	502	1/1	1.00	0.01	29,29,29,29	0

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.